

**UNITED STATES AIR FORCE
SCHOOL OF AEROSPACE MEDICINE**

**Publications and Presentations
of the Ophthalmology Branch,
USAF School of Aerospace Medicine
1981-1990**

Thomas J. Tredici
Bertha B. Second

December 1990

20030303 057

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NOTICES

This interim report was submitted by personnel of the Ophthalmology Branch, Clinical Sciences Division, USAF School of Aerospace Medicine, Human Systems Division, AFSC, Brooks Air Force Base, Texas, under Job Order 7755-24-07.

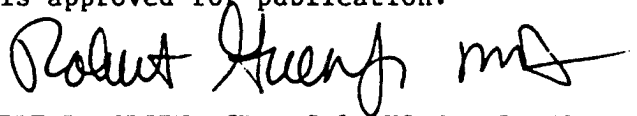
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The Office of Public Affairs has reviewed this report, and it is releasable to the National Technical Information Service, where it will be available to the general public, including foreign nationals.

This report has been reviewed and is approved for publication.



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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS	
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release; distribution is unlimited.	
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE		5. MONITORING ORGANIZATION REPORT NUMBER(S)	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) USAFSAM-SR-90-6		7a. NAME OF MONITORING ORGANIZATION	
6a. NAME OF PERFORMING ORGANIZATION USAF School of Aerospace Medicine	6b. OFFICE SYMBOL (If applicable) USAFSAM/NGO	7b. ADDRESS (City, State, and ZIP Code)	
6c. ADDRESS (City, State, and ZIP Code) Human Systems Division (AFSC) Brooks AFB TX 78235-5301		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION USAF School of Aerospace Medicine	8b. OFFICE SYMBOL (If applicable) USAFSAM/NGO	10. SOURCE OF FUNDING NUMBERS	
8c. ADDRESS (City, State, and ZIP Code) Human Systems Division (AFSC) Brooks AFB TX 78235-5301		PROGRAM ELEMENT NO. 62202F	PROJECT NO. 7755
		TASK NO. 24	WORK UNIT ACCESSION NO. 07
11. TITLE (Include Security Classification) Publications and Presentations of the Ophthalmology Branch, USAF School of Aerospace Medicine 1981 - 1990			
12. PERSONAL AUTHOR(S) Tredici, Thomas J.; Secord, Bertha B.			
13a. TYPE OF REPORT Interim Special Report	13b. TIME COVERED FROM 1981 TO 1990	14. DATE OF REPORT (Year, Month, Day) 1990, December	15. PAGE COUNT 57
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	
06	05		
06	04		
		Aerospace ophthalmology, visual standards, visual problems in aviation	
19. ABSTRACT (Continue on reverse if necessary and identify by block number)			
<p>Aerospace ophthalmology combines the practice of Clinical Ophthalmology and Aerospace Medicine in attempting to solve the visual and ophthalmological problems of the aviator and astronaut. The Ophthalmology Branch of the USAF School of Aerospace Medicine has exclusively performed this task for nearly 75 years. The visual problems and solutions proposed are documented in the publications and invited presentations of Ophthalmology Branch personnel, listed in chronological order for the years 1981 through 1990. They deal primarily with applied visual and clinical topics; such as, visual standards for flying, the use of contact lenses in aviation, visual illusions and aircraft accidents, air-to-air target acquisition, management of glaucoma in flying personnel, etc.</p>			
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL Thomas J. Tredici, M.D.		22b. TELEPHONE (Include Area Code) (512) 536-3241	22c. OFFICE SYMBOL USAFSAM/NGO

PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH
USAF SCHOOL OF AEROSPACE MEDICINE 1981-1990

OPHTHALMOLOGY BRANCH

1981 Publications

PROTECTION OF THE EYES AGAINST NUCLEAR FLASH

Tredici, Thomas J
Conference Proceedings, AGARD/NATO Lecture Series No. 115, Personal Visual
Aids for Aircrew, Paris, France and Furstenfeldbruck, Germany,
22-27 Jun 1981

ACTIVE CENTRAL RETINAL ARTERY EMBOLIZATION

Ivan DJ, DR May, RM Evans, PS O'Connor, and TJ Tredici
Ophthalmology, Vol. 88, No. 7, Jul 1981

VERTICAL PRISM DISPARITY IN AIRCRAFT WINDSHIELDS

Provines WF and BD Targove
American Journal of Optometry and Physiological Optics, Vol. 58, No. 9,
pp. 740-745, Sep 1981

VISUAL TRAINING EFFECTS ON NORMAL VISION

Goodson RA and AJ Rahe
American Journal of Optometry and Physiological Optics, Vol. 58, No. 10,
pp. 787-791, Oct 1981

ACEPHALGIC MIGRAINE: FIFTEEN YEARS' EXPERIENCE

O'Connor PS and TJ Tredici
Ophthalmology, Vol. 88, No. 10, Oct 1981

CRYSTALLINE RETINOPATHY (BIETTI'S TAPETORETINAL DEGENERATION WITHOUT MARGINAL CORNEAL DYSTROPHY)

Mauldin WM and PS O'Connor
American Journal of Ophthalmology 92:640-646, Nov 1981

INTRACAVERNOUS ANEURYSMS AND ISOLATED SIXTH-NERVE PALSY

O'Connor, Patrick S
Neuro-Ophthalmology, 1981 (Ed. J. L. Smith)

OPHTHALMOLOGY BRANCH

1981 Presentations

ORTHOKERATOLOGY UPDATE

Tredici, Thomas J

Presentation, Twenty-First Annual Instructional Course in Contact Lens Fitting, Contact Lens Association of Ophthalmologists, New Orleans LA, 2-5 Apr 1981

COMPLICATED MIGRAINE

Bailey, Thomas D

Presentation, Society of Air Force Clinical Surgeons Surgical Postgraduate Seminar, Ophthalmology Postgraduate Seminar, San Antonio TX, 13-15 Apr 1981

NUTRITIONAL AMBLYOPIA IN VIETNAM POWs

Tredici, Thomas J

Presentation, Society of Air Force Clinical Surgeons Surgical Postgraduate Seminar, Ophthalmology Postgraduate Seminar, San Antonio TX, 13-15 Apr 1981

REFRACTIVE ERROR CHANGES IN AF ACADEMY CADETS

Goodson, Richard A

Presentation at 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981

ACEPHALGIC MIGRAINE IN FLYING PERSONNEL SEEN AT THE USAF SCHOOL OF AEROSPACE MEDICINE

O'Connor PS and TJ Tredici

Presentation at 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981

THE ROLE OF VISION AND VISUAL ILLUSIONS IN AIRCRAFT ACCIDENTS

Tredici, Thomas J

Presentation at 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981

AEROSPACE OPHTHALMOLOGY 1918-1981

Tredici, Thomas J

Scientific Exhibit, 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981

1981 Presentations (continued)

PROTECTION OF THE EYES AGAINST NUCLEAR FLASH

Tredici, Thomas J

Presentation, AGARD/NATO Lecture Series No. 115, Personal Visual Aids for
Aircrew, Paris, France and Furstenfeldbruck, Germany, 22-27 Jun 1981

OPHTHALMOLOGY BRANCH

1982 Publications

THE MARCUS GUNN PUPIL IN EXPERIMENTAL OPTIC TRACT LESIONS

O'Connor PS, D Kasdon, TJ Tredici, and DJ Ivan
Ophthalmology 89:2, February 1982

THE INCIDENCE OF REFRACTIVE ANOMALIES IN THE AIR FORCE RATED POPULATION

Provines WF, WM Woessner, A Rahe, and TJ Tredici
Preprint, 1982 Aerospace Medical Association Meeting

A REVIEW OF OCULAR MALINGERING AND HYSTERIA FOR THE FLIGHT SURGEON

Hesterberg RC Jr and TJ Tredici
Preprint, 1982 Aerospace Medical Association Meeting

REFRACTIVE STATUS PROFILES IN THE USAF RATED POPULATION

Woessner WM, WF Provines, A Rahe, and TJ Tredici
Preprint, 1982 Aerospace Medical Association Meeting
Bal Harbour FL, 10-14 May 1982

DROP-BALL IMPACT RESISTANCE OF OPHTHALMIC LENSES--COMPARISON OF TINT, MATERIAL, TREATMENT PROCESS AND DRILLING

Provines WF, JW Miller, RH Blevins, JR Fischer, and TJ Tredici
SAM-TR-82-13, USAF School of Aerospace Medicine, Brooks AFB TX, May 1982

ACHROMATOPSIA: CLINICAL DIAGNOSIS AND TREATMENT

O'Connor PS, TJ Tredici, DJ Ivan, JV Mumma, and DE Shacklett
J Clin Neuro-Ophthalmol 2:219, 1982

HISTOPATHOLOGY OF EXPERIMENTAL OPTIC TRACT HEMIANOPIA

Schmidt RE, TJ Tredici, and PS O'Connor
Ophthalmic Research 14:354-360, 1982

EVALUATION OF TRAINING TECHNIQUES FOR AIR-TO-AIR TARGET ACQUISITION

Bloomfield JR and DA Smith
SAM-TR-82-32, USAF School of Aerospace Medicine, Brooks AFB TX,
December 1982 (Final Report, Contract No. F33615-79-C-0615, Honeywell, Inc.,
Systems and Research Center, Aerospace and Defense Group, Minneapolis MN)

OPHTHALMOLOGY BRANCH

1982 Presentations

VISUAL ELECTROPHYSIOLOGY (Workshop)

Woessner, William M
Presentation, Brooke Army Medical Center, Ophthalmology Residents Program,
Ft Sam Houston TX, 20 Jan 1982

VISION AS A FACTOR IN MILITARY AIRCRAFT MISHAPS

Tredici, Thomas J
Presentation, Conference on Vision as a Factor in Military Aircraft Mishaps,
USAF Inspection and Safety Center, Norton AFB CA and Brooks AFB TX,
23 Feb 1982

PUPIL-SPARING THIRD-NERVE PALSIES DUE TO INTRACRANIAL ANEURYSM

O'Connor, Patrick S
Presentation, Society of Air Force Clinical Surgeons, Sacramento CA,
26-30 Mar 1982

CONTACT LENSES

Ivan DJ and TJ Tredici
Presentation, Society of Air Force Clinical Surgeons, Sacramento CA,
26-30 Mar 1982

GLAUCOMATOUS VISUAL FIELDS SCREENING

O'Connor, Patrick S
Presentation, Society of Air Force Clinical Surgeons, Sacramento CA,
26-30 Mar 1982

ACHROMATOPSIA

O'Connor, Patrick S
Presentation, Alamo City Ophthalmology Residents Conference, University of
Texas Health Science Center at San Antonio, San Antonio TX, 26-27 Mar 1982

REVIEW OF ORTHOKERATOLOGY

Tredici, Thomas J
Presentation, First Annual USAF Ophthalmic Technicians Meeting, Sacramento
CA, 28-29 Mar 1982

1982 Presentations (continued)

PERIMETRY AND VISUAL FIELDS

O'Connor, Patrick S

Presentation, First Annual USAF Ophthalmic Technicians Meeting, Sacramento
CA, 28-29 Mar 1982

HARD CONTACT LENSES: INITIAL FITTING PROCEDURES, FOLLOW-UP VISITS, PROBLEM SOLVING

Ivan, Douglas J

Presentation, First Annual USAF Ophthalmic Technicians Meeting, Sacramento
CA, 28-29 Mar 1982

VISION - EVALUATION AND STANDARDS

Tredici, Thomas J (Chairperson)

Aerospace Medical Association Annual Meeting, Bal Harbour FL, 9-14 May 1982

INCIDENCE OF SPECTACLE WEARERS AMONG THE USAF RATED POPULATION

Provines WF, A Rahe, WM Woessner, and TJ Tredici

Presentation, Annual Meeting of the Aerospace Medical Association, Bal
Harbour FL, 9-14 May 1982

A REVIEW OF OCULAR MALINGERING AND HYSTERIA FOR THE FLIGHT SURGEON

Hesterberg RC Jr and TJ Tredici

Presentation, Annual Meeting of the Aerospace Medical Association, Bal
Harbour FL, 9-14 May 1982

REFRACTIVE STATUS PROFILES IN THE USAF RATED POPULATION

Woessner WM, WF Provines, A Rahe, and TJ Tredici

Presentation, Annual Meeting of the Aerospace Medical Association, Bal
Harbour FL, 9-14 May 1982

US ARMY SYMPOSIUM OF MEDICAL (OPHTHALMIC) SURVEILLANCE OF PERSONNEL
POTENTIALLY EXPOSED TO LASER RADIATION

Tredici, Thomas J (Guest Lecturer and Panel Member)

US Army Environmental Hygiene Agency, Aberdeen Proving Ground MD,
8-9 Sep 1982

1982 Presentations (continued)

AIR FORCE EFFORTS IN PROTECTION AND ENHANCEMENT OF VISION

Tredici, Thomas J
Tri-Service Joint Working Group on Eye Armor Meeting, Uniformed Services
University of Health Sciences, Bethesda MD, 1 Oct 1982

MYOPIA INDUCED BY HYPERBARIC OXYGEN

Tredici TJ, DJ Ivan, and EE Kirby
Presentation, Second International Conference on Myopia, San Francisco CA,
28-30 Oct 1982

AEROSPACE OPHTHALMOLOGY EXHIBIT

Tredici, Thomas J
Exhibit Presentation at the 24th International Congress of Ophthalmology
and the American Academy of Ophthalmology, San Francisco CA, 3-5 Nov 1982

PHYSICAL CHARACTERISTICS AND TRANSMISSION OF LIGHT

Tredici, Thomas J
24th International Congress of Ophthalmology and American Academy of
Ophthalmology Meeting, Symposium on Light Toxicity, San Francisco CA,
3-5 Nov 1982

TONOMETRY AND GLAUCOMA

Tredici, Thomas J
Lecture, Continuing Education Program for Ophthalmic Technicians, Joint
Commission on Allied Health Personnel in Ophthalmology, San Francisco CA,
Nov 1982

THE XM-30 MILITARY PROTECTIVE GAS MASK: ITS EFFECT ON OCULAR ENVIRONMENT AND
CORNEAL THICKNESS

Miller, Robert E II
Presentation, American Academy of Optometry and Physiological Optics Annual
Meeting, Philadelphia PA, 10-15 Dec 1982

OPHTHALMOLOGY BRANCH

1983 Publications

PUPIL-SPARING THIRD NERVE PALSIES CAUSED BY ANEURYSM

O'Connor PS, TJ Tredici, and RP Green Jr
Am J Ophthal 95:3, Mar 1983

PUPILLARY-SPARING THIRD NERVE PALSY DUE TO ANEURYSM: A SURVEY OF 2419
NEUROLOGICAL SURGEONS

O'Connor PS, TJ Tredici, and RP Green Jr
Neurosurgical Forum, Letters to the Editor, J Neurosurg 58, May 1983

THE INCIDENCE OF REFRACTIVE ANOMALIES IN THE USAF RATED POPULATION

Provines WF, AJ Rahe, and TJ Tredici
Aviation, Space and Environmental Medicine, Jul 1983

USAF POSITION ON RADIAL KERATOTOMY

Tredici, Thomas J
Letters to the Editor, Ophthalmic Surgery 14:9, Sep 1983

CONTACT LENSES IN INDUSTRY

Tredici, Thomas J
USAF Safety Journal, Sep 1983

A REVIEW OF OCULAR MALINGERING AND HYSTERIA FOR THE FLIGHT SURGEON

Hesterberg RC Jr and TJ Tredici
Aviation, Space and Environmental Medicine, 54(10): 934-936: 1983

YELLOW OPHTHALMIC FILTERS IN THE VISUAL ACQUISITION OF AIRCRAFT

Provines WF, AJ Rahe, MG Block, T Pena, and TJ Tredici
SAM-TR-83-46, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1983

1983 Publications (continued)

OXYGEN COMPARISON MADE EASY

Flynn WJ, TG Quinn, and RM Hill
Contact Lens Forum 8(1):57-59, 1983

OPHTHALMOLOGY BRANCH

1983 Presentations

GLAUCOMA AND SCHIOTZ TONOMETRY

Tredici, Thomas J
Lecture, University of Texas Health Science Center, San Antonio TX,
25 Feb 1983

CORNEAL OPACIFICATION AND LCAT DEFICIENCY

Hesterberg RC Jr and TJ Tredici
Presentation, Alamo City Ophthalmology Residents Conference, University of
Texas Health Science Center at San Antonio, San Antonio TX, 15-16 Apr 1983

CONTACT LENSES

Tredici, Thomas J
Presentation, Second Annual USAF Ophthalmic Technicians Meeting,
San Antonio TX, 1-5 May 1983

TONOMETRY

Tredici, Thomas J
Presentation, Second Annual USAF Ophthalmic Technicians Meeting,
San Antonio TX, 1-5 May 1983

USE OF CONTACT LENSES BY USAF AVIATORS

Tredici TJ and EE Kirby
Presentation, Aerospace Medical Association Annual Meeting, Houston TX,
23-26 May 1983

AEROSPACE OPHTHALMOLOGY

Tredici, Thomas J
Exhibit Presentation, Aerospace Medical Association Annual Meeting,
Houston TX, 23-26 May 1983

GLAUCOMA AND TONOMETRY

Tredici, Thomas J
Presentation, Continuing Education Program for Ophthalmic Technicians,
Joint Commission on Allied Health Personnel in Ophthalmology, Nov 1983

OPHTHALMOLOGY BRANCH

1984 Publications

SOFT CONTACT LENSES: FEASIBILITY IN SIMULATED FLIGHT OPERATION SCHEDULES

Miller, Robert E II
USAF Medical Service Digest, Spring 1984

HYPOTONIC EXPOSURES

Flynn WJ and RM Hill
Journal of the American Optometric Association, Vol. 55:3:221-222, Mar 1984

AEROMEDICAL ASPECTS OF NIGHT VISION

Miller, Robert E II (Sponsor for Working Group Meeting)
USAF School of Aerospace Medicine, Brooks AFB TX, 12 Jun 1984,
Proceedings of the Meeting

CORNEAL OPACIFICATION AND LECITHIN-CHOLESTEROL ACETYLTRANSFERASE (LCAT) DEFICIENCY: A CASE REPORT

Hesterberg RC Jr and TJ Tredici
Annals of Ophthalmology, Vol 16, No. 7, pp. 616-621, Jul 1984

CORNEAL BURNS: A QUANTITATIVE COMPARISON OF ACID AND BASE

Flynn WJ, TF Mauger and RM Hill
Acta Ophthalmologica 52:542-548, 1984

COMPARATIVE VISUAL PERFORMANCE WITH ANVIS AND AN/PVS-5A NIGHT VISION GOGGLES UNDER STARLIGHT CONDITIONS

Miller RE II, WF Provines, MG Block, JW Miller, and TJ Tredici
USAFSAM-TR-84-28, USAF School of Aerospace Medicine, Brooks AFB TX, Aug 1984

1984 Publications (continued)

SPHERE AND CYLINDER DISTRIBUTION AMONG THE USAF RATED POPULATION REQUIRING SPECTACLES

Provines WF, TJ Tredici, and AJ Rahe
Technical Note, Aviation, Space and Env Medicine, Aug 1984

DRY LENS DEFICITS

Flynn WJ and RM Hill
International Contact Lens Clinic, Vol. II, No. 8, Aug 1984

HAVE WE HIT THE HIGH-WATER MARK?

Flynn WJ and RM Hill
Contact Lens Forum 9:9:45-49, Sep 1984

TECHNIQUES TO ENHANCE AEROSPACE VISUAL PERFORMANCE AND CLASSIFY AIRCREW

Miller, Robert E II
Proceedings of the Tri-Service Aeromedical Research Panel Fall Technical Meeting, AMRL Monograph 33, Nov 1984

SOFT CONTACT LENSES IN THE AEROSPACE ENVIRONMENT

Flynn, William F
Proceedings of the 1984 Air National Guard Optometric Society Symposium, San Diego CA, Nov 1984

OPHTHALMOPLEGIC MIGRAINE

Bailey TD, PS O'Connor, and TJ Tredici
J Clin Neuro-Ophthalmol 4:225-228, 1984

USE OF MULTIPLE REGRESSION TECHNIQUES IN DETERMINING THE SURFACE OF THE CORNEA

Block MG and MB Block
Am J Optom and Physiol Optics 61:12:721-728, Dec 1984

THE OXYGEN PERFORMANCE OF HARD GAS PERMEABLES

Flynn WJ and RM Hill
Contact Lens Forum 9:11:61-67, 1984

BINOCULAR VISUAL ACUITY WITH II- AND III-GEN NIGHT VISION GOGGLES

Miller RE II and WF Provines
Proceedings of the 1984 American Academy of Optometry Congress, Dec 1984

OPHTHALMOLOGY BRANCH

1984 Presentations

AEROSPACE OPHTHALMOLOGY UPDATE

Tredici, Thomas J

Presentation at Operational Aeromedical Problems Lecture, USAF School of Aerospace Medicine, Brooks AFB TX, 16-20 Jan 1984

INTRODUCTION TO GLAUCOMA

Tredici, Thomas J

Presentation, University of Texas Health Science Center at San Antonio Residents, San Antonio TX, 10 Feb 1984

COMPARATIVE VISUAL PERFORMANCE WITH ANVIS AND AN/PVS-5A NIGHT VISION GOGGLES UNDER STARLIGHT CONDITIONS

Miller, Robert E II

Presentation at Night Operations Symposium IV, American Defense Preparedness Association, Los Angeles CA, 20-23 Mar 1984

CONTACT LENS USE BY MILITARY AVIATORS

Tredici, Thomas J

Presentation, University of Texas Residents Day, San Antonio TX, 6-7 Apr 1984

NIGHT VISION RESEARCH AT USAFSAM

Miller, Robert E II

Presentation, Working Group Meeting Aeromedical Aspects of Night Vision, Brooks AFB TX, 12 Jun 1984

SCOTOPIC VISION

Tredici, Thomas J

Presentation, Working Group Meeting Aeromedical Aspects of Night Vision, Brooks AFB TX, 12 Jun 1984

EYE SAFETY--FROM MINEOLA TO THE MOON

Tredici, Thomas J

Presentation, 1984 National Conference of the National Society to Prevent Blindness, New York NY, 20 Sep 1984

1984 Presentations (continued)

TECHNIQUES TO ENHANCE AEROSPACE VISUAL PERFORMANCE AND CLASSIFY AIRCREW

Miller, Robert E II

Presentation, Tri-Service Aeromedical Research Panel (TARP) Fall Technical Meeting, Pensacola FL, 13-14 Nov 1984

SOFT CONTACT LENSES IN THE AEROSPACE ENVIRONMENT

Flynn, William J

Presentation, 1984 Air National Guard Optometric Symposium, San Diego CA, 4-5 Nov 1984

DECREASE IN IMPACT STRENGTH OF USED POLYCARBONATE (LEXAN) SPECTACLE LENSES

Tredici, Thomas J

Poster Presentation, American Academy of Ophthalmology 1984 Meeting, Atlanta GA, 11-16 Nov 1984

COMPUTERS AND VIDEO: EYE STRAIN OR EYE HELP

Tredici, Thomas J

Newsroom Panel Session, American Academy of Ophthalmology 1984 Meeting, Atlanta GA, 11-16 Nov 1984

TONOMETRY (Demonstration Course)

Tredici, Thomas J

Joint Commission on Allied Health Personnel in Ophthalmology Continuing Education Program for Technicians, Atlanta GA, 9 Nov 1984

OPHTHALMOLOGY BRANCH

1985 Publications

THE RIGID "SUPER-PERMEABLES"

Hill R, S Brezinski and WJ Flynn
Contact Lens Forum 10(1):35-39, Jan 1985

KERATOREFRACTIVE SURGERY AND AIR FORCE FLYING PERSONNEL

Tredici, Thomas J
Proceedings, Keratorefractive Surgery Meeting, Brooks AFB TX, 20-25 Feb 1985

CORNEAL RESPONSES TO ACID MEASURED IN VIVO

Flynn WJ, JE King, and RM Hill
Am J Optom and Physiol Optics 62(3):217-221, Mar 1985

HCL BURNS OF THE CORNEA, MEASURED QUANTITATIVELY AND IN VIVO

Flynn WJ, JE King, and RM Hill
Investigative Ophthalmology and Visual Science Supplement, Abstract,
26(3):180, Mar 1985

NEW VISUAL TESTING TECHNIQUES APPLICABLE TO THE MILITARY OPTOMETRIST

Miller, Robert E. II
Proceedings, Armed Forces Optometric Society of the American Optometric
Association Annual Meeting, 1985

EFFECTS OF ACCELERATION (+Gz) ON SOFT CONTACT LENS WEAR

Flynn, William J
Preprint, 1985 Aerospace Medical Association Meeting, San Antonio TX,
May 1985

EFFECT OF ACCELERATION (+Gz) ON SOFT CONTACT LENS WEAR

Flynn WJ, MG Block, WF Provines, and TJ Tredici
Aviation, Space and Environmental Medicine, Abstract, 56(5):496, May 1985

NEW SCREENING METHODS AND VISUAL STANDARDS FOR ANVIS NIGHT VISION GOGGLES

Miller, Robert E II
Special Report, USAF School of Aerospace Medicine, Brooks AFB TX,
24 May 1985

1985 Publications (continued)

VISUAL AND OCULAR FINDINGS OF ASTRONAUTS

Tredici, Thomas J, et al
Poster, Aerospace Medical Association Annual Meeting, San Antonio TX,
12-16 May 1985

HARD-COATED POLYCARBONATE VERSUS CR-39 LENSES: A FIELD STUDY

Miller JW, WF Provines, AJ Rahe, RH Blevins, and TJ Tredici
USAFSAM-TR-85-25, USAF School of Aerospace Medicine, Brooks AFB TX, May 1985

THE EFFECTS OF HYPOXIA INDUCED BY LOW ATMOSPHERIC PRESSURE ON SOFT CONTACT LENS WEAR

Flynn WJ, RE Miller, MG Block, and TJ Tredici
USAFSAM-TR-85-30, USAF School of Aerospace Medicine, Brooks AFB TX,
Jun 1985

CONCEPTUAL DESIGN FOR A STATE-OF-THE-ART NIGHT VISION LABORATORY LOW CONTRAST SNELLEN CHARTS AS A TEST OF VISUAL FUNCTION MESOPIC VISION

Miller, Robert E II
Special Report, USAF School of Aerospace Medicine, July 1985

OPHTHALMOLOGY IN AEROSPACE MEDICINE

Tredici, Thomas J
Chapter 15, in Fundamentals of Aerospace Medicine, R. L. DeHart (Ed), Lea & Febiger/Philadelphia, 1985

NIGHT VISION MANUAL FOR THE FLIGHT SURGEON

Tredici TJ and RE Miller II
USAFSAM-SR-85-3, USAF School of Aerospace Medicine, Brooks AFB TX, Aug 1985

AEROSPACE OPHTHALMOLOGY

Tredici, Thomas J
The Eye Report, Quarterly Bulletin, The University of Texas Health Science Center at San Antonio, San Antonio TX, Sep 1985

+Gz FORCES AND RETINAL DETACHMENT

Tredici, Thomas J
Letters to the Editor, Aviation, Space and Env Medicine, Oct 1985

1985 Publications (continued)

SUBCONTACT LENS BUBBLE FORMATION AT ALTITUDE

Flynn WJ, RE Miller, and TJ Tredici
American Journal of Optometry and Physiological Optics, 62(10):118P,
Oct 1985

OPTICAL EVALUATION OF ACDAR HELMET VISORS

Woessner WM, J Taboada, and WF Provines
Special Report, USAF School of Aerospace Medicine, Brooks AFB TX, Nov 1985

USAF POSITION ON RADIAL KERATOTOMY

Tredici, Thomas J
Letter to the Editor, Aviation, Space and Env Medicine, Nov 1985

SOFT CONTACT LENS WEAR DURING +Gz ACCELERATION

Flynn WJ, MG Block, WF Provines, TJ Tredici, and RD Kullman
USAFSAM-TR-85-84, USAF School of Aerospace Medicine, Brooks AFB TX,
December 1985

AEROSPACE OPHTHALMOLOGY - Contributions of the Ophthalmology Branch to Visual
Science and National Defense

Tredici, Thomas J
Special Report, USAF School of Aerospace Medicine, Brooks AFB TX, 1985

OPHTHALMOLOGY BRANCH

1985 Presentations

THE WORKER'S EYE: OPTHALMOLOGY AND OCCUPATIONAL HEALTH

Tredici, Thomas J
Presentation at Postgraduate Seminar, American Occupational Health
Conference, Kansas City MO, 14-19 Apr 1985

ANATOMY AND PHYSIOLOGY OF THE EYE

Tredici, Thomas J
Presentation at the Contact Lens Society of Texas Annual Meeting,
Austin TX, 13-14 Apr 1985

TRANSMISSION THROUGH TINTED CONTACT LENSES

Tredici, Thomas J
Presentation at the Contact Lens Society of Texas Annual Meeting,
Austin TX, 13-14 Apr 1985

VISUAL AND OCULAR FINDINGS OF ASTRONAUTS

Tredici, Thomas J
Presentation at the 5th Annual Alamo City Ophthalmology Residents
Conference, San Antonio TX, 12-13 Apr 1985

GLAUCOMA AND TONOMETRY

Tredici TJ and GS Baer
Presentation at the 33rd Annual Symposium of the Society of Air Force Clinical
Surgeons, San Antonio TX, 29 Apr - 2 May 1985

EFFECT OF ACCELERATION (+Gz) ON SOFT CONTACT LENS WEAR

Flynn William J, et al
Presentation at Aerospace Med Assn Meeting, San Antonio TX, 12-16 May 1985

SCIENTIFIC EXHIBIT: AEROSPACE OPTHALMOLOGY, 1918-1985

Tredici, Thomas J
Presentation at Aerospace Med Assn Meeting, San Antonio TX, 12-15 May 1985

and,

American Academy of Ophthalmology Annual Meeting, San Francisco CA,
30 Sep-3 Oct 1985

1985 Presentations (continued)

VISUAL AND OCULAR FINDINGS OF ASTRONAUTS

Tredici TJ, BG Martin, EE Kirby, and GS Baer
Aerospace Medical Association Meeting, San Antonio TX, May 1985

CORRELATION OF VISION STANDARDS AND TESTS WITH PILOT PERFORMANCE

Tredici, Thomas J
Aerospace Medical Association Meeting, San Antonio TX, May 1985

A STUDY OF LIGHT TRANSMISSION THROUGH TINTED CONTACT LENSES OF VARYING THICKNESSES

Tredici TJ, TD Tredici, EF Maher, and DL Arnold
Contact Lens Society of Texas Meeting, Austin TX, Apr 1985

APPLANATION TONOMETRY

Tredici, Thomas J
4th Annual USAF Ophthalmic Technicians Meeting, San Antonio TX, Apr 1985

DIAGNOSIS AND TREATMENT OF INJURIES TO THE EYE

Tredici, Thomas J
American Occupational Health Conference, Kansas City MO, 14-19 Apr 1985

HCl BURNS OF THE CORNEA, MEASURED QUANTITATIVELY AND IN VIVO

Flynn, William J
Poster Presentation, Association for Research in Vision and Ophthalmology Meeting, Sarasota FL, May 1985

NEW VISUAL TESTING TECHNIQUES APPLICABLE TO THE MILITARY

Miller, Robert E II
Presentation to the Armed Forces Optometric Society, American Optometric Association Annual Meeting, June 1985

NEW VISUAL TESTING TECHNIQUES APPLICABLE TO THE MILITARY OPTOMETRIST

Miller, Robert E II
Armed Forces Optometric Society Meeting, Las Vegas NV, 19-24 Jun 1985

1985 Presentations (continued)

OCCUPATIONAL OPHTHALMOLOGY 1985: THE WORKER'S EYE HEALTH PROJECT

Tredici TJ, JF Novak, KA Cinotti, and LD Pizzarello
Course 141, American Academy of Ophth, San Francisco CA, Oct 1985

THE EFFECTS OF ROUTINE OFFICE PUPILLARY DILATION ON FUNCTIONAL
DAYLIGHT VISION

O'Connor PS, TJ Tredici, B Byrne, and J Pickett
Scientific Poster 55, American Academy of Ophth, San Francisco CA, Oct 1985

THE EFFECTS OF AIR TRAVEL ON EYES WITH INTRAOCULAR GAS

Dieckert JP and TJ Tredici, et al
American Academy of Ophth, San Francisco CA, Oct 1985

TONOMETRY DEMONSTRATION AND GLAUCOMA

Tredici TJ and LL Tredici
Course, Joint Commission on Allied Health Personnel in Ophthalmology
Continuing Education Program for the Ophthalmic Assistant,
American Academy of Ophth, San Francisco CA, Oct 1985

OPTOMETRIC VISION RESEARCH AT THE USAF SCHOOL OF AEROSPACE MEDICINE

Miller, Robert E II
Optometry Seminar, Sheppard AFB TX, 15-18 Oct 1985

SOFT CONTACT LENS WEAR IN THE AEROSPACE ENVIRONMENT

Flynn, William J
Optometry Seminar, Sheppard AFB TX, 15-18 Oct 1985

MALDEVELOPMENT OF VISUAL MOTION PROCESSING IN HUMANS WHO HAD STRABISMUS
DURING INFANCY

Tychsen, Lawrence
15th Annual Meeting of the Society of Neurosciences, Dallas TX, 18-23 Oct
1985

JET AIRCRAFT ACCELERATION AND SOFT CONTACT LENS WEAR

Block MG, WJ Flynn, WF Provines, and TJ Tredici
American Academy of Optometry, Atlanta GA, 8-10 Dec 1985

SUBCONTACT LENS BUBBLE FORMATION AT ALTITUDE

Miller, Robert E II
Poster Presentation, American Academy of Optometry, Atlanta GA,
4-12 Dec 1985

OPHTHALMOLOGY BRANCH

1986 Publications

HISTORY OF FLUORESCEIN ANGIOGRAPHY

Tredici, Thomas J
Correspondence and Case Reports, Arch Ophthalmol, Vol 104, Jan 1986

INTRAOCULAR LENSES IN FLYING PERSONNEL

Tredici TJ and RP Green Jr
Abstract, Aerospace Medical Association Meeting, Apr 1986

USAF UNDERGRADUATE PILOT TRAINING PASS/FAIL RATES OF SPECTACLED VERSUS
NONSPECTACLED STUDENT PILOTS

Provines WF, JR Fischer Jr, LC Johnson, and TJ Tredici
USAFSAM-TR-85-50, USAF School of Aerospace Medicine, Brooks AFB TX

TWENTIETH CENTURY EYE ARMOR

Flynn, William J
Medical Service Digest 36(3)10-14, 1986

THE EFFECTS OF HYPOXIA INDUCED BY HYPOBARIC PRESSURE ON SOFT CONTACT LENS WEAR

Flynn WJ, RE Miller II, GW Saboe, and TJ Tredici
Aviation, Space and Environmental Medicine 57(55):508, May 1986

LASER GENERATED BEAM ARRAY FOR COMMUTATION OF 2-D SPATIALLY MODULATED OPTICAL
SIGNALS

Taboada, John
Proceedings of the Society of Photo-Optic Instrumentation Engineers 30th
International Symposium, 1986

CHLAMYDOMONAS PHOTOTAXIS AS A SIMPLE SYSTEM FOR TESTING THE EFFECT OF DRUGS ON
VISION

Moyer, Rex
Final Report on Work Unit 77552410, USAF School of Aerospace Medicine,
Brooks AFB TX, 1986

1986 Publications (continued)

SUBCONTACT LENS BUBBLE FORMATION UNDER LOW ATMOSPHERIC PRESSURE CONDITIONS

Flynn WJ, RE Miller II, TJ Tredici, MG Block, EE Kirby, and WF Provines
USAFSAM-TR-86-21, USAF School of Aerospace Medicine, Brooks AFB TX,
August 1986

ABRASION - RESISTANT COATED VERSUS NONCOATED CR-39 OPHTHALMIC LENSES: A FIELD STUDY

Miller RE II, WP DeSorbo, AJ Rahe, WF Provines, and TJ Tredici
USAFSAM-TR-86-16, USAF School of Aerospace Medicine, Brooks AFB TX
August 1986

MALDEVELOPMENT OF VISUAL MOTION PROCESSING IN HUMANS WHO HAD STRABISMUS WITH ONSET IN INFANCY

Tychsen L and SG Lisberger
J of Neuroscience, Sep 1986

VISUAL MOTION PROCESSING FOR THE INITIATION OF SMOOTH-PURSUIT EYE MOVEMENTS IN HUMANS

Tychsen L and SG Lisberger
J of Neurophysiology, Vol. 56, No. 4., Oct 1986

CENTRAL SEROUS RETINOPATHY IN USAF AVIATORS

Green, Robert P Jr
Abstract, Aerospace Medical Association 1987 Annual Scientific Meeting,
Las Vegas NV, Dec 1986

EFFECTS OF AVIATION ALTITUDES ON SOFT CONTACT LENS WEAR

Flynn WJ, RE Miller II, TJ Tredici, and MG Block
USAFSAM-TR-86-20, USAF School of Aerospace Medicine, Brooks AFB TX, 1986

CONTACT LENS WEAR FOR VISUAL DISORDERS IN USAF AVIATORS

Flynn WJ and TJ Tredici
USAFSAM-TR-86-23, USAF School of Aerospace Medicine, Brooks AFB TX, 1986

FITTING THE MAG-1

Miller JW and CA Browning
Special Report, USAF School of Aerospace Medicine, Research Optical Unit,
Ophthalmology Branch, Brooks AFB TX, 1986

1986 Publications (continued)

RESOLUTION OF SACCADIC PALSY AFTER TREATMENT OF BRAIN STEM METASTASIS

Tychsen, Lawrence
Archives of Neurology, 1986

CONTRAST SENSITIVITY: CHARACTERISTICS OF A LARGE YOUNG, ADULT POPULATION

Yates JT, JM Harrison, PS O'Connor, and C Ballentine
American Journal of Optom and Physiology Opt 64:519-527, 1986

OPHTHALMOLOGY BRANCH

1986 Presentations

AEROSPACE OPHTHALMOLOGY UPDATE

Tredici, Thomas J
Operational Aeromedical Problems Course, Brooks AFB TX, 30 Jan 1986

USAF SPECTACLE DEVELOPMENT OVERVIEW

Miller, Robert E II
CWD/Laser Eye Protection Meeting, Brooks AFB TX, 20-21 Mar 1986

CONTACT LENS DEVELOPMENT

Flynn, William J
CWD/Laser Eye Protection Meeting, Brooks AFB TX, 20-24 Mar 1986

MAG-1 TRAINING AND IMPROVEMENT

Miller, JW
CWD/Laser Eye Protection Meeting, Brooks AFB TX, 20-24 Mar 1986

OCULAR SIDE EFFECTS OF HYPERBARIC O₂

Tredici TJ, LL Tredici, DJ Ivan, and PS O'Connor
6th Annual Alamo City Ophthalmology Residents Conference, San Antonio TX,
4-5 Apr 1986

CONTRIBUTION OF THE MILITARY TO OPHTHALMOLOGY IN SAN ANTONIO, TEXAS

Tredici, Thomas J
San Antonio Society of Ophthalmology, 15 Apr 1986

INTRAOCULAR LENSES IN USAF FLYING PERSONNEL

Tredici TJ and RP Green Jr
Aerospace Medical Association Meeting, Nashville TN, 20-24 Apr 1986

MESOPIC VISUAL FUNCTION IN AIRCREW

Miller RE II, O Cosby, and TJ Tredici
Aerospace Medical Association Meeting, Nashville TN, 20-24 Apr 1986

1986 Presentations (continued)

THE EFFECTS OF HYPOXIA INDUCED BY HYPOBARIC PRESSURE ON SOFT CONTACT LENS WEAR

Flynn WJ, RE Miller II, GW Saboe, and TJ Tredici
Aerospace Medical Association Meeting, Nashville TN,
20-24 Apr 1986

AEROSPACE OPHTHALMOLOGY, 1918-1986

Tredici, Thomas J
Exhibit, Aerospace Medical Association Meeting, Nashville TN,
20-24 Apr 1986

COMPONENTS OF HUMAN VISUAL PROCESSING EVIDENT AT THE INITIATION OF PURSUIT EYE MOVEMENT

Tychsen L and SG Lisberger
Association for Research in Vision and Ophthalmology (ARVO) Meeting,
Sarasota FL, 27 Apr-3 May 1986

FAILURE TO RECOVER VISUALLY GUIDED SACCADDES IN HUMANS WITH LONG STANDING HEMIANOPIA

Hurtig RR, L Tychsen, and M Rizzo
Association for Research in Vision and Ophthalmology (ARVO) Meeting,
Sarasota FL, 27 Apr-3 May 1986

SOFT CONTACT LENS WEAR DURING (+Gz) ACCELERATION

Tredici TJ and WJ Flynn
23rd Annual Baylor Ophthalmology Alumni Association Meeting, Baylor College
of Medicine, Houston TX, 13-14 Jun 1986

OCULAR CHANGE DURING LONG TERM SPACE FLIGHT: COMMITTEE ON VISION

Tredici, Thomas J
Exploratory Meeting on Change in Vision During Long-Term Space Flight,
NASA-AMES, Moffett Field CA, 22-24 Jun 1986

OCULAR PHARMACOLOGY

Green, Robert P Jr
Alamo City Resident Orientation, University of Texas Health Science Center,
San Antonio TX, 3 Jul 1986

VISUAL PHYSIOLOGY AND NIGHT VISION UPDATE

Miller, Robert E II
Aerospace Physiology Training Officer's Course, Brooks AFB TX, 28 Jul 1986

1986 Presentations (continued)

THE IMPORTANCE OF NIGHT VISION IN MILITARY AVIATION

Tredici, Thomas J
American Psychological Association Meeting, Washington DC, 26 Aug 1986

WHAT'S NEW IN VISION RESEARCH AND DEVELOPMENT IN THE AIR FORCE

Miller, Robert E II
Army Optometry Seminar, Fitzsimmons Army Hospital, Denver CO, 14-18 Sep 1986

OPTOMETRIC RESEARCH IN THE USAF

Miller, Robert E II
Association of Military of the Surgeons United States Meeting,
San Antonio TX, 4 Nov 1986

OCULAR PHARMACOLOGY

Green, Robert P Jr
Association of Military of the Surgeons United States Meeting,
San Antonio TX, 4 Nov 1986

CATECHOLAMINE DEPLETION PRODUCES IRREPRESSIBLE SACCADIC EYE MOVEMENT IN NORMAL HUMANS

Tychsen, Lawrence
Society of Neurosciences, Washington DC, 9-14 Nov 1986

VISUAL PROBLEMS IN THE USE OF VDTs

Tredici, Thomas J
American Academy of Ophthalmology Meeting, New Orleans LA, 9-14 Nov 1986

TONOMETRY AND GLAUCOMA

Tredici, Thomas J
American Academy of Ophthalmology Meeting, New Orleans LA, 9-14 Nov 1986

AEROSPACE OPHTHALMOLOGY

Tredici, Thomas J
American Academy of Ophthalmology Meeting, New Orleans LA, 9-14 Nov 1986

INFANTILE STRABISMUS

Tychsen, Lawrence
Ophthalmology Residents, University of Texas Health Science Center,
San Antonio TX, Nov 1986

1986 Presentations (continued)

AEROSPACE VISION LABORATORY

Dennis, Richard J

USAF Optometry Seminar, Sheppard AFB TX, 30 Nov-4 Dec 1986

CONTACT LENS RESEARCH AT USAFSAM

Dennis, Richard J

USAF Optometry Seminar, Sheppard AFB TX, 30 Nov-4 Dec 1986

LASER IR STIMULATION OF PHOTORECEPTORS

Taboada, John

Air Force Office of Scientific Research, Washington DC, 9 Dec 1986

OPHTHALMOLOGY BRANCH

1987 Publications

A FURTHER INVESTIGATION OF CONTRAST SENSITIVITY AND VISUAL ACUITY IN ACTUAL AIRCRAFT DETECTION PERFORMANCE OF PILOTS

O'Neal MR and RE Miller II
Supplement to Investigative Ophthalmology, Abstract, 28(3):301, March 1987

NYKTOMETER TESTING OF AIRCREW: PART II

Miller, Robert E II
Abstract, Aviation, Space and Environmental Medicine, Vol 58, No. 5,
May 1987

VIDEO DISPLAY TERMINALS (VDTs) - EFFECTS ON VISION

Tredici, Thomas J
Abstract, Aviation, Space and Environmental Medicine, Vol 58, No. 5,
May 1987

THE USE OF CONTACT LENSES BY USAF AVIATORS

Tredici TJ and WJ Flynn
Aviation, Space and Environmental Medicine, Vol 58, No. 5, May 1987

LASER GENERATED BEAM ARRAY FOR COMMUNICATION OF SPATIALLY MODULATED OPTICAL SIGNALS

Taboada, John
Society of Photo-Optic Instrumentation Engineers, Vol 698, pp. 198-206, 1987

EFFECT OF POSITIVE ACCELERATION (+Gz) ON SOFT CONTACT LENS WEAR

Flynn WJ, MG Block, TJ Tredici, and WF Provines
Aviation, Space and Environmental Medicine, Vol 58(6), June 1987

ULTRASHORT IR LASER PULSE ISOMERIZATION OF ALL-TRANS RETINAL TO LL-CIS RETINAL

Taboada J, J Liegner, and ATC Tsin
Proceedings, 14th Congress of the International Commission for Optics,
813:17-18, 1987

CONTRAST SENSITIVITY: CHARACTERISTICS OF A LARGE YOUNG, ADULT POPULATION

Yates JT, JM Harrison, PS O'Connor, and C Ballentine
American Journal of Optom and Physiology Opt 1986:64:519-527

1987 Publications (Continued)

CONTACT LENS WEAR AT ALTITUDE: SUBCONTACT LENS BUBBLE FORMATION

Flynn WJ, RE Miller II, TJ Tredici, MG Block, and EE Kirby
Aviation, Space and Environmental Medicine, pp 1115-1118, Nov 1987

UV ABSORPTION BY INTRAOCULAR LENSES

O'Connor PS, TJ Tredici, and PT O'Connor
Abstract - American Academy of Ophthalmology, Dallas TX, 8-12 Nov 87

OPHTHALMOLOGY BRANCH

1987 Presentations

CONTACT LENS POLICY REVIEW

Tredici, Thomas J
Aerospace Medical Consultants Division, Office of the Surgeon General,
Brooks AFB TX, 28 Jan 1987

AEROSPACE OPHTHALMOLOGY UPDATE, OPERATIONAL AEROMEDICAL PROBLEMS COURSE 1987

Tredici TJ and RE Miller II
USAF School of Aerospace Medicine, Brooks AFB TX, 29 Jan 1987

HISTORY OF INTRAOCULAR LENSES

Green, Robert P Jr
Tri-Service Cataract Surgery Course, March 1987

GLAUCOMA/OCULAR PHARMACOLOGY

Green, Robert P Jr
USAF Ophthalmic Technician Course, San Antonio TX, Apr 1987

PUPILLARY DYNAMICS POST CATARACT EXTRACTION

Peters, Daniel R
7th Annual Alamo City Ophthalmology Resident's Conference, University of
Texas Health Science Center, San Antonio TX, 3-4 Apr 1987

SPEEDIEST MYDRIATIC FOR CLINICAL USE DETERMINED BY PUPILLOGRAPHY

Carlson, Dean W
7th Annual Alamo City Ophthalmology Resident's Conference, University of
Texas Health Science Center, San Antonio TX, 3-4 Apr 1987

100TH ANNIVERSARY OF THE NATIONAL INSTITUTES OF HEALTH

Tredici, Thomas J
7th Annual Alamo City Ophthalmology Resident's Conference, University of
Texas Health Science Center, San Antonio TX, 3-4 Apr 1987

OCULAR HAZARDS OF RADIANT ENERGY

Tredici, Thomas J
American Occupational Medical Association, Philadelphia PA, 27-30 Apr 1987

A FURTHER INVESTIGATION OF VISUAL ACUITY AND CONTRAST SENSITIVITY IN ACTUAL AIRCRAFT DETECTION PERFORMANCE OF PILOTS

O'Neal MR and RE Miller II
1987 Association for Research in Vision and Ophthalmology Meeting, Sarasota
FL, 4-8 May 1987

1987 Presentations (continued)

IDIOPATHIC CENTRAL SEROUS CHOROIDOPATHY IN USAF AVIATORS

Green RP Jr and DW Carlson

58th Annual Scientific Meeting, Aerospace Medical Association, Las Vegas NV,
10-14 May 1987

AEROSPACE OPHTHALMOLOGY: 1918-1987

Tredici, Thomas J

58th Annual Scientific Meeting, Aerospace Medical Association, Las Vegas NV,
10-14 May 1987

NYKTOMETER TESTING OF AIRCREW: PART II

Miller RE II, O Cosby Jr, and TJ Tredici

58th Annual Scientific Meeting, Aerospace Medical Association, Las Vegas NV,
10-14 May 1987

VIDEO DISPLAY TERMINALS (VDTs) - EFFECT ON VISION

Tredici, Thomas J

58th Annual Scientific Meeting, Aerospace Medical Association, Las Vegas NV,
10-14 May 1987

AEROSPACE OPHTHALMOLOGY - CONTRIBUTIONS TO VISUAL SCIENCE AND NATIONAL
DEFENSE

Tredici, Thomas J

First Murray F. McCaslin, M.D. Memorial Lecture, University of
Pittsburgh, Pittsburgh PA, 14 May 1987

OCULAR SIDE EFFECTS OF HYPERBARIC OXYGEN THERAPY

Tredici TJ, LL Tredici, DJ Ivan, and PS O'Connor

Baylor College of Medicine, Houston TX, 6 Jun 1987

A SENSITIVE SPECTROPHOTOMETRIC TECHNIQUE FOR MEASURING PHOTOTAXIS IN
CHLAMYDOMONAS REINHARTI

Schroeder WF, RC Moyer, and J Taboada

Annual Meeting of the Society of Photozoologists, Champaign Urbana IL,
14 Jul 1987

VISUAL STANDARDS THAT RELATE TO THE USE OF CONTACT LENSES IN THE AEROSPACE
ENVIRONMENT

Woessner, William M

NASA Visual Standards Review Committee, Houston TX, 30 Jun 1987

1987 Presentations (Continued)

SOFT CONTACT LENS RESEARCH AT USAFSAM

Dennis, Richard J
Briefing to Brig Gen Rufus M DeHart, HQ USAF/SGP, Brooks AFB TX
15 Jul 1987, other meetings: 31 Aug 1987, 1 Sep 1987, 2 Sep 1987

SOFT CONTACT LENSES IN THE HIGH PERFORMANCE AIRCRAFT ENVIRONMENT

Dennis, Richard J
Briefing to Planning Group of the TAC Soft Contact Lens Test, Langley AFB
VA, 2 Sep 1987

INFORMATION BRIEFING ON VISUAL PERFORMANCE TO USAF ACADEMY SUPERINTENDENT

Miller RE II and MR O'Neal
USAFA, Colorado Springs CO, Sep 1987

VISION IN AVIATION AND SPACE FLIGHT

Tredici, Thomas J
Dieter-Porter Medical Lecture
Washington and Jefferson College, Washington PA, 24 Oct 1987

UV ABSORPTION BY INTRAOCULAR LENSES

O'Connor PS, TJ Tredici, and PT O'Connor
Poster, American Academy of Ophthalmology, Dallas TX, 8-12 Nov 1987

OPHTHALMOLOGY BRANCH

1988 Publications

FURTHER INVESTIGATION OF CONTRAST SENSITIVITY AND VISUAL ACUITY IN PILOT
DETECTION OF AIRCRAFT

O'Neal MR and RE Miller II
AAMRL-TR-88002, Armstrong Aeromedical Research Laboratory, Wright Patterson
AFB OH, Jan 1988

SOFT CONTACT LENS WEAR AT ALTITUDE: EFFECTS OF HYPOXIA

Flynn WJ, RE Miller II, TJ Tredici, and MG Block
Aviation, Space and Environmental Medicine, pp 44-48, Jan 1988

A PERIMETRIST'S GUIDE FOR OPTIC DISC VISUAL FIELD SCREENING: THE ARMALY-
DRANCE METHOD

Carlson DW and L Tychsen
USAFSAM-TP-87-4, USAF School of Aerospace Medicine, Brooks AFB TX, Feb 1988

A BRIEF GUIDE TO COLOR VISION TESTING FOR OPHTHALMOLOGY RESIDENTS

Peters DR and L Tychsen
USAFSAM-TR-87-6, USAF School of Aerospace Medicine, Brooks AFB TX, Feb 1988

GLAUCOMA MEDICATIONS SUITABLE FOR USE BY THE AVIATOR

Tredici TJ, RP Green Jr, DR Peters, and DW Carlson
(Abstract) Aviation, Space and Environmental Medicine, Mar 1988

CENTRAL SEROUS CHORIORETINOPATHY IN USAF AVIATORS: A REVIEW

Green RP Jr, DW Carlson, JP Dieckert, and TJ Tredici
USAFSAM-TR-87-34, USAF School of Aerospace Medicine, Brooks AFB TX, Mar 1988

A FIELD STUDY FOR SOFT CONTACT LENS WEAR IN USAF MILITARY TRANSPORT AIRCRAFT

Dennis RJ, WJ Flynn, CJ Oakley, and TJ Tredici
USAFSAM-TR-88-4, USAF School of Aerospace Medicine, Brooks AFB TX, Apr 1988

VIDEO DISPLAY TERMINALS (VDTs) AND VISION OF WORKERS

Tredici, Thomas J
Lecture Series - American Occupational Medical Association, Apr 1988

SLIT LAMP BIOMICROSCOPY - BASIC PRINCIPLES

Tredici, Thomas J
Lecture Series - American Occupational Medical Association, Apr 1988

1988 Publications (Continued)

VISUAL RESULTS AFTER CATARACT SURGERY BY A MILITARY RESIDENT SURGEON

Green RP Jr and DR Peters
Ophthalmic Surgery, Vol 19, No 4, Apr 1988

FURTHER INVESTIGATION OF CONTRAST SENSITIVITY AND VISUAL ACUITY IN PILOT
DETECTION OF AIRCRAFT

O'Neal MR and RE Miller II
(Abstract) Aviation, Space and Environmental Medicine, Vol 59(5):463, May
1988

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr
USAFSAM-TR-88-21, USAF School of Aerospace Medicine, Brooks AFB TX, Oct 1988

EFFECTS OF ROUTINE PUPILLARY DILATATION ON FUNCTIONAL DAYLIGHT VISION

O'Connor PS and TJ Tredici
Archives of Ophthalmology 106:1567-1569; 1988

IDIOPATHIC CENTRAL SEROUS CHORIORETINOPATHY IN USAF AVIATORS: A REVIEW

Green, Robert P Jr
Aviation, Space, and Environmental Medicine, 59:1170-1175, Dec 1988

THE INCIDENCE OF SPECTACLE WEAR IN USAF AIRCREW

Miller RE II, MR O'Neal, WM Woessner, and RJ Dennis
Abstract, Aerospace Medical Association Meeting, Dec 1988

PRIMARY MALDEVELOPMENT OF VISUAL MOTION PATHWAY IN HUMANS

Tychsen, Lawrence
Investigative Ophthalmol Vis Sci, Supp(ARVO) 8 Dec 1988

VISUAL MOTION PROCESSING IN HUMANS AFTER LOSS OF STRIATE CORTEX

Tychsen L, M Rizzo, RR Hurtig, KW Stevens, and EJ Engelken
Soc Neurosci Abstr 14(2):796; 1988

1988 Publication (continued)

EFFECTS OF INFRARED LASER RADIATION ON THE IN-VITRO ISOMERIZATION OF ALL-
TRANSRETINAL TO 11-CYSRETINAL

Liegner J, J Taboada, and ATC Tsin
Lasers In The Life Sciences Vol II, 103; 1988

OPHTHALMOLOGY BRANCH

1988 Presentations

OCCUPATIONAL OPHTHALMOLOGY UPDATE

Tredici, Thomas J
American Occupational Medical Association Meeting, New Orleans LA,
24-29 Apr 1988

OPHTHALMOLOGY FOR THE OCCUPATIONAL PHYSICIAN

Tredici TJ, T Turref, and BR Blais
Postgraduate Seminar #14, American Occupational Medical Association Meeting,
New Orleans LA, 24-29 Apr 1988

THE USE OF THE OPHTHALMIC SLIT LAMP BY THE OCCUPATIONAL MEDICINE PHYSICIAN

Tredici TJ, BR Blais, and H Keeney
Postgraduate Seminar #33, American Occupational Medical Association Meeting,
New Orleans LA, 24-29 Apr 1988

VISUAL RESULTS AFTER CATARACT SURGERY BY A MILITARY RESIDENT SURGEON

Green, Robert P Jr
Air Force Clinic Surgeons Meeting, Apr 1988

GLAUCOMA MEDICATION SUITABLE FOR USE BY THE AVIATOR

Tredici TJ, RP Green Jr, DR Peters, and DW Carlson
Aerospace Medical Association Meeting, New Orleans LA, 8-12 May 1988

IDIOPATHIC CENTRAL SEROUS CHORIORETINOPATHY IN USAF AVIATORS

Green RP Jr and DW Carlson
Aerospace Medical Association Meeting, New Orleans LA, May 1988

KERATOCONUS IN USAF AVIATORS

Carlson DW and RP Green Jr
Aerospace Medical Association Meeting, May 1988

MICROSTRABISMUS, THE USAFSAM AVIATOR STUDY GROUP

Tychsen L and RP Green Jr
Aerospace Medical Association Meeting, New Orleans LA, May 1988

1988 Presentations (continued)

PIGMENTARY DISPERSION SYNDROME AND GLAUCOMA IN USAF AVIATORS

Green RP Jr and DR Peters
Aerospace Medical Association Meeting, New Orleans LA, 8-12 May 1988

STRABISMUS AND AMBLYOPIA IN THE 1990's: HOW NEW INFORMATION ON VISUAL DEVELOPMENT IN YOUNG INFANTS WILL ALTER OUR THINKING

Tychsen L and A Norcia
Workshop, American Association for Pediatric Ophthalmology and Strabismus, Boston MA, May 1988

USE OF CONTACT LENSES BY MILITARY AVIATORS

Tredici, Thomas J
Presentation to Canadian Defense Force Group, Ottawa Canada, 20 Jun 1988

HISTORICAL PERSPECTIVE - CONTRIBUTIONS OF THE NRC COV TO THE SOLUTION OF VISUAL PROBLEMS OF THE USAF AVIATOR

Tredici, Thomas J
National Research Council-Committee On Vision Meeting and Retreat, Beckman Center, Irvine CA, 17-20 Jul 1988

OCULAR PHARMACOLOGY

Green, Robert P Jr
Resident's Orientation, University of Texas Health Science Center, San Antonio TX, Jul 1988

HOW TO DO EXCELLENT SCREENING OF VISUAL FIELDS WITHOUT AN \$80,000 GADGET

O'Connor PS and TJ Tredici
Course lecture, American Academy of Ophthalmology Annual Meeting, Las Vegas NV, 12 Oct 1988

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr
Letterman Army Institute of Research Annual "Lasers on the Modern Battlefield" Meeting, San Francisco CA, Oct 1988

GLAUCOMA AND TONOMETRY DEMONSTRATION COURSE

Tredici TJ and L Tredici
Joint Commission on Allied Health Personnel in Ophthalmology Meeting, Las Vegas NV, 14 Oct 1988

OPHTHALMOLOGY BRANCH OVERVIEW AND USAFSAM OPHTHALMOLOGY CLINICAL STUDY GROUPS

Green, Robert P Jr
Association of Military Surgeons of the United States Annual Meeting, San Antonio TX, Nov 1988

1988 Presentations (continued)

MEDICAL PROBLEM OF CONTACT LENSES IN THE MILITARY

Green, Robert P Jr
National Research Council Committee on Vision Symposium on the Use of
Contact Lenses Under Adverse Conditions, Brooks AFB TX, Nov 1988

CONTACT LENS WEAR IN THE AEROSPACE ENVIRONMENT

Dennis, Richard J
National Research Council Committee on Vision Symposium on the Use of
Contact Lenses Under Adverse Conditions, Brooks AFB TX, Nov 1988

USAF AIRCREW VISION STANDARDS

Miller, Robert E II
Association of Military Surgeons of the United States Annual Meeting,
San Antonio TX Nov 1988

OPTOMETRIC VISION RESEARCH IN THE USAF

Miller, Robert E II
Annual USAF Optometry Seminar, Sheppard AFB TX, Nov 1988

MAG-1 SPECTACLE FRAME MODIFICATION

Woessner, William M
Association of Military Surgeons of the United States Annual Meeting,
San Antonio TX, Nov 1988

A NEW BRIDGE CONFIGURATION TO IMPROVE MAG-1 SPECTACLE FRAME COMFORT

Woessner, William M
Annual USAF Optometry Seminar, Sheppard AFB TX, Nov 1988

THE EFFECTS OF +Gz ACCELERATION ON CONTACT LENS WEAR

Dennis, Richard J
Annual Meeting of the Association of Military Surgeons of the United States
San Antonio TX, Nov 1988

SOFT CONTACT LENS RESEARCH WITH THE TACTICAL AIR COMMAND

Dennis, Richard J
Annual USAF Optometry Seminar, Sheppard AFB TX, Nov 1988

1988 Presentations (continued)

USAF AIRCREW VISION STANDARDS

Miller, Robert E II

Annual Meeting of Allied Military Surgeons of the United States

Air National Guard Optometric Soc Section, San Antonio TX, Nov 1988

OPTOMETRIC VISION RESEARCH IN THE USAF

Miller, Robert E II

Annual USAF Optometry Seminar, Sheppard AFB TX, Nov 1988

OPHTHALMOLOGY BRANCH

1989 Publications

WEAR OF CONTACT LENSES BY TACTICAL AIRCREW: MEDICAL ACCEPTABILITY

Dennis, Richard J
TAC Project 88G-005T, Interim Report
USAF Tactical Air Warfare Center, Eglin AFB FL, Jan 1989

SOFT CONTACT LENSES: SINK OR BARRIER TO CHEMICAL WARFARE AGENTS?

Dennis RJ, WJ Flynn, CJ Oakley, and MG Block
USAFSAM-TR-89-2, USAF School of Aerospace Medicine, Brooks AFB TX,
Mar 1989

COMPATIBILITY OF NIGHT VISION GOGGLES AND CHEMICAL WARFARE MASKS

Miller RE II, WM Woessner, LM Wooley, RJ Dennis, and RP Green Jr
USAFSAM-TR-89-3, USAF School of Aerospace Medicine, Brooks AFB TX,
Mar 1989

CATECHOLAMINE DEPLETION PRODUCES IRREPRESSIBLE SACCADIC EYE MOVEMENTS
IN NORMAL HUMANS

Tychsen L and N Siteram
Annals of Neurology, Vol 25 #5, May 1989

RECOVERY OF PUPILLOMOTOR FUNCTION AFTER CATARACT SURGERY

Peters DR and L Tychsen
Human and Environmental Medicine, pp 586-588, Jun 1989

IDIOPATHIC CENTRAL SEROUS CHORIORETINOPATHY IN US AIR FORCE AVIATORS -
A REVIEW (Abstract)

Green, Robert P Jr
American Journal of Ophthalmology, 107:697, Jun 1989

OPERATIONAL HAZARDS OF MILITARY LASERS: USAF FLYING SAFETY KIT

Green RP, RM Cartledge, and FE Cheney
Special Report, USAF School of Aerospace Medicine, Brooks AFB TX, Jul 1989

NIGHT VISION GOGGLES: AEROMEDICAL ISSUE

Miller, Robert E II
Report on the Joint Service Night Vision Conference, Dept of the
Army, St Louis MO, Aug 1989

1989 Publications (continued)

WEAR OF CONTACT LENSES BY TACTICAL AIRCREW: MEDICAL ACCEPTABILITY

Dennis, Richard J
TAC Project 88G-005T, Final Report
USAF Tactical Air Warfare Center, Eglin AFB FL, Sep 1989

CONTACT LENSES IN AIRCREW - INVITED REVIEW

Dennis, Richard J
Strughold Aeromedical Researcher, USAF School of Aerospace Medicine,
Brooks AFB TX, Sep 1989

PRESCRIBING SPECTACLES FOR AVIATORS

Miller RE II, JF Kent, and RP Green Jr
USAFSAM-SR-89-5, USAF School of Aerospace Medicine, Brooks AFB TX,
Sep 1989

REFRACTIVE ERROR CHANGES SINCE COLLEGE GRADUATION

O'Neal MR, RE Miller II, WM Woessner, RJ Dennis, and DK Treadaway
Supplement to Optometry and Vision Science, 66(10):217, Oct 1989

THE EFFECT OF FLUCTUATING +Gz EXPOSURE IN RIGID GAS-PERMEABLE CONTACT LENS WEAR

Dennis RJ, WM Woessner, RE Miller II, and KK Gillingham
USAFSAM-TR-89-23, USAF School of Aerospace Medicine, Brooks AFB TX,
Nov 1989

THE PREVALENCE OF SPECTACLE WEAR AND INCIDENCE OF REFRACTIVE ERROR IN USAF AIRCREW

Miller RE II, MR O'Neal, WM Woessner, RJ Dennis, and RP Green Jr
USAFSAM-TR-89-28, USAF School of Aerospace Medicine, Brooks AFB TX,
Dec 1989

EFFECT OF HIGH ELECTRIC FIELDS ON THE PHOTO-ISOMERIZATION OF ALL-TRANS RETINAL

Taboada J, F Aldape, and ATC Tsin
Biophysical Journal, 34:1076, 1989

SEARCH FOR SOLITON MODES IN HELICAL POLY-G-BENZYL-L-GLUTAMATE

Renthal R and J Taboada
Physics Letters A. Vol 139:57, 1989

OPHTHALMOLOGY BRANCH

1989 Presentations

VISUAL ELECTRODIAGNOSTIC TECHNIQUES FOR THE CLINICIAN

Yates, John T

Delivered to Wilford Hall Medical Center and Brooke Army Medical Center residents and staff, Fall 1987-1988, and 1988-1989

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

USAFSAM RESEARCH ON CONTACT LENSES IN THE FLYING ENVIRONMENT

Green, Robert P Jr

Operational Aeromedical Problems Course, USAF School of Aerospace Medicine, Brooks AFB TX, Jan 1989

RADIAL KERATOTOMY IN THE USAF

Green, Robert P Jr

HQ USAF/SGP Keratorefractive Surgery Committee, Brooks AFB TX, Jan 1989

EFFECT OF HIGH ELECTRIC FIELDS ON THE PHOTOISOMERIZATION OF ALL-TRANS RETINAL

Taboada J, F Aldape, and ATC Tsin

Proceedings of the Biophysical Society Meeting, Cincinnati OH, 16 Feb 1989

USAF OCULAR SURVEILLANCE RECOMMENDATIONS FOR LASER AND INCIDENTAL PERSONNEL

Green, Robert P Jr

Tri-Service Meeting, Aberdeen Proving Grounds MD, Feb 1989

WEAR OF CONTACT LENSES BY TACTICAL AIRCREWS AND IMPROVEMENTS TO THE MASK-ADAPTABLE GOGGLE (MAG-1)

Dennis, Richard J

Presented to the USAF Chemical Defense Review Committee, Brooks AFB TX, Feb 1989

USAF ENVIRONMENTAL CONDITIONS AND/OR OCCUPATIONAL REQUIREMENTS ENCOUNTERED IN AEROSPACE THAT CREATE RISKS FOR CONTACT LENS USE

Dennis, Richard J

Presented to the National Research Council, Committee on Vision Contact Lens Working Group, Berkley CA, Mar 1989

CAREER IMPACT OF KERATOCONUS IN USAF AVIATORS, Carlson DW and Green RP Jr
RETINAL DETACHMENTS IN USAF AVIATORS, Chou T and Green RP Jr
ORBITAL BLOWOUT FRACTURE: FORCE QUANTITATION, Peters DR and Green RP Jr

Alamo City Residents Day, San Antonio TX, Mar 1989

1989 Presentations (continued)

OCULAR HAZARDS OF RADIANT ENERGY
VISUAL PROBLEMS WITH VDTs

Tredici, Thomas J
Presented at Ophthalmology Teaching Day, Albany Medical College,
Albany NY, 2 Mar 1989

OPHTHALMOLOGY BRANCH USAF SCHOOL OF AEROSPACE MEDICINE

Green, Robert P Jr
Society of Air Force Clinical Surgeons, San Francisco CA, Apr 1989

DIAGNOSES AND TREATMENT OF INJURIES TO THE EYE

Tredici, Thomas J
American Occupational Medical Association Meeting, Boston MA, 30 Apr 1989

GOLDMAN VISUAL FIELDS - THEORY AND PRACTICAL APPLICATION

Linnemeyer, Paula J
Seventh Annual USAF Technicians' Meeting, San Antonio TX, 10-11 Apr 1989

FINE PERFORMANCE AND STEREOPSIS IN MICROSTRABISMIC USAF PILOTS

Pasquale AC III and L Tychsen
Society of Air Force Clinical Surgeons Meeting, San Antonio TX,
12 Apr 1989

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr
Society of Air Force Clinical Surgeons Meeting, San Antonio TX,
12 Apr 1989

AEROSPACE CONTACT LENS WEAR AND A NEW AIRCREW SPECTACLE

Dennis, Richard J
Briefing presented at HQ Military Airlift Command, Scott AFB IL, Apr 1989

VISUAL STANDARDS FOR ASTRONAUTS

Tredici, Thomas J
Space Station Freedom Medical Standards Working Group, NASA, Houston TX,
16 May 1989

THE INCIDENCE OF SPECTACLE WEAR IN USAF AIRCREW

Miller, Robert E II
Poster Presentation, Aerospace Medical Association Meeting, Wash DC,
10 May 1989

1989 Presentations (continued)

NIGHT VISION GOGGLES: AEROMEDICAL ISSUES

Miller, Robert E II
Joint Service Night Vision Conference, St Louis MO, 17 May 1989

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr
Aerospace Medicine Annual Meeting, Wash DC, 10 May 1989

PSYCHOPHYSICS AND PHYSIOLOGY OF COLOR VISION

Yates, John T
Delivered to University of Texas Health Science Center, Wilford Hall
Medical Center, and Brooke Army Medical Center residents, San Antonio TX,
May 1989

FORCE NECESSARY TO FRACTURE THE ORBITAL FLOOR

Green RP Jr, et al
American Society of Plastic and Reconstructive Surgery, New Orleans LA,
Oct 1989

NOVEL OPTICALLY-COUPLED LASER PROBE AND METHOD FOR REFRACTIVE SURGERY

Taboada J, RH Poirier, RW Yee, and CF Bonney
International Society for Refractive Keratoplasty, New Orleans LA,
28 Oct 1989

PREVALENCE OF SPECTACLE WEAR IN THE U.S. AIR FORCE AIRCREW AND A NEW AIRCREW SPECTACLE

Miller, Robert E II
Presented to the Chief Scientist of the Air Force, Brooks AFB TX,
12 Oct 1989

GLAUCOMA AND TONOMETRY DEMONSTRATION COURSE

Tredici TJ and PJ Linnemeyer
Joint Commission on Allied Health Personnel in Ophthalmology Meeting,
New Orleans LA, 1 Nov 1989

HOW TO DO EXCELLENT SCREENING FIELDS WITHOUT AN \$80,000 GADGET

O'Connor PS and TJ Tredici
Course lecture; American Academy of Ophthalmology Meeting, New Orleans LA,
29 Oct-3 Nov 1989

1989 Presentations (continued)

AEROSPACE MEDICAL UPDATE

Dennis, Richard J

Presented to the Optometry section of the Association of Military Surgeons of the United States, and the Air National Guard Optometric Society, San Diego CA, 13-14 Nov 1989

THE EFFECT OF FLUCTUATING +Gz EXPOSURE ON RIGID GAS-PERMEABLE CONTACT LENS WEAR

Dennis, Richard J

Poster Presentation, American Academy of Optometry, New Orleans LA, 10 Dec 1989

MYOPIA PROGRESSION IN SPECTACLED AIR FORCE PILOTS AND NAVIGATORS

Woessner WM, W Provines, and NS Ketchum

American Academy of Optometry, New Orleans LA, 10 Dec 1989

MEDICAL MANAGEMENT OF COMBAT AND PEACETIME LASER EYE INJURIES

Green, Robert P Jr

Advanced Aerospace Medicine Program, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1989

MEDICAL COMPLICATIONS OF CONTACT LENSES

Green, Robert P Jr

Advanced Aerospace Medicine Program, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1989

OPHTHALMOLOGY BRANCH

1990 Publications

THE PREVALENCE OF SPECTACLE WEAR AND INCIDENCE OF REFRACTIVE ERROR IN USAF AIRCREW

Miller RE II, MR O'Neal, WM Woessner, RJ Dennis, and RP Green Jr
USAFSAM-TR-89-28, USAF School of Aerospace Medicine, Brooks AFB TX,
Feb 1990

OPTICALLY COUPLED TECHNIQUE FOR PHOTOREFRACTIVE SURGERY OF THE CORNEA

Toboada J and RH Poirier
Optics Letters, 15, 458-460, Feb 1990

CONTROVERSIES IN AEROSPACE OPHTHALMOLOGY:
OCULAR PROTECTION WITH NIGHT VISION GOGGLES

Miller, Robert E II
(Abstract) Aviation, Space and Environmental Medicine
Vol 61 #5 452, May 1990

PRESUMED OCULAR HISTOPLASMOSIS IN AVIATION PERSONNEL - THE USAF EXPERIENCE

Murphy EP and TJ Tredici
(Abstract) Aviation, Space and Environmental Medicine
Vol 61 #5, May 1990

CHOROIDAL NEVI IN USAF AVIATORS

Vandivort DC and TJ Tredici
(Abstract) Aviation, Space and Environmental Medicine
Vol 61 #5, May 1990

VISUAL STANDARDS FOR NVG USERS AND THE ROLE OF THE FLIGHT SURGEON

Miller, Robert E II
Report on The JT Service Night Vision Conference,
US Army Aviation Systems Command, St Louis MO, June 1990

RIGID GAS-PERMEABLE CONTACT LENS WEAR DURING + Gz ACCELERATION

Dennis RJ, WM Woessner, RE Miller II, KK Gillingham
Aviation, Space and Environmental Medicine
Vol 61 #10 906-12, 1990

1990 Publications (continued)

ADULT ONSET MYOPIA IN AIR FORCE PILOTS AND NAVIGATORS

Woessner WM, RE Miller II, and MR O'Neal
Optometry and Vision Science: Supplement
Vol 67 #10 63, Oct 1990

PRESCRIBING SPECTACLES FOR USAF AVIATORS

Miller RE II, JF Kent, and RP Green Jr
Aviation, Space and Environmental Medicine (In press)

GLARE AND AGE: ACQUISITION OF A CLINICAL DATA BASE FOR AIR CREW STANDARDS

Harrison JM, C Peng, CS Ballentine and JT Yates
USAFSAM-TR-90-28, USAF School of Aerospace Medicine, Brooks AFB TX,
Oct 1990

FORCE NECESSARY TO FRACTURE THE ORBITAL FLOOR

Green RP Jr, DR Peters, JW Shore, JW Fanton, and H Davis
Ophthalmologic Plastic and Reconstruction Surgery
Vol 6 #3 211-217, 1990

SURVEY OF SPECTACLE WEAR AND REFRACTIVE ERROR PREVALENCE IN USAF PILOTS AND NAVIGATORS

Miller RE II, WM Woessner, RJ Dennis, MR O'Neal, and RP Green Jr
Optometry and Vision Science
Vol 67 #11 833-839, Nov 1990

EPIDEMIC KERATOCONJUNCTIVITIS AT A U.S. MILITARY BASE, REPUBLIC OF THE PHILIPPINES

Paparello, Rickman, Ward, Hayer, Mesbahi, Siojo
Military Medicine (In press)

AN EVALUATION OF THE PHOTOPIC ELECTRORETINOGRAM USING LOWER EYELID ELECTRODES

Anderson LB and JT Yates
USAFSAM 90-23, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1990

CHOROIDAL NEVI IN USAF AVIATORS

Vandivort DL, TJ Tredici, and RP Green Jr,
USAFSAM-TR-89-11, USAF School of Aerospace Medicine, Brooks AFB TX,
Dec 1990

1990 Publications (continued)

PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH, USAF SCHOOL OF
AEROSPACE MEDICINE - 1981 - 1990

Tredici TJ and BB Secord

USAFSAM-SR-90-6, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1990

This was the final Ophthalmology Branch Publication under the USAFSAM LOGO.

OPHTHALMOLOGY BRANCH

1990 Presentations

MEDICAL COMPLICATIONS OF CONTACT LENSES

Green, Robert P Jr
Operational Aeromedical Problems Course, Brooks AFB TX, Jan 1990

THE USAF SOFT CONTACT LENS IMPLEMENTATION PLAN

Dennis, Richard J
Triservice Aeromedical Research Panel, Brooks AFB TX,
10 Jan 1990

THE USAF SOFT CONTACT LENS IMPLEMENTATION PLAN

Dennis, Richard J
USAF Flight Surgeons Conference on Operational Aeromedical
Problems Course, Brooks AFB TX, 26 Jan 1990

AIRCREW SPECTACLES/CONTACT LENS UPDATE

Miller, Robert E II
Aerospace Medicine Supervisors Course, Brooks AFB TX,
26 Jan 1990

AIRCREW SPECTACLES AND OPTOMETRY UPDATE

Miller, Robert E II
Operational Aeromedical Problems Course, Brooks AFB TX,
26 Jan 1990

FIELD STUDY ON A NEW AIRCREW SPECTACLE AND SPECIAL REPORT ON AEROSPACE VISION PROBLEMS

Miller, Robert E II
USAF Aircrew Spectacle Working Group, Brooks AFB TX, 29 Jan 1990

THE REPORT OF THE NRC WORKING GROUP ON THE WEAR OF CONTACT LENSES IN MILITARY AVIATION

Dennis, Richard J
Thirteenth USAF Optometry Seminar, Sheppard AFB TX,
8 Feb 1990.

MEDICAL COMPLICATIONS OF CONTACT LENSES

Green, Robert P Jr
NATO Flight Surgeons Meeting, Ramstein AFB Germany, Mar 1990

1990 Presentations (continued)

MEDICAL MANAGEMENT OF COMBAT AND PEACETIME LASER EYE INJURIES

Green, Robert P Jr
NATO Flight Surgeons Meeting, Ramstein AFB Germany, March 1990

OCULAR PHOTOTOXIC HAZARDS AT ALTITUDE

Ivan, Douglas J
NATO Flight Surgeons Meeting,
Ramstein AFB Germany, March 1990

USAF STUDY FOR A NEW AIRCREW SPECTACLE

Miller, Robert E II
US Army Aviator Ophthalmic Frame Working Group Meeting,
Ft Rucker AL, 14 Mar 1990

YELLOW LENSES/VISORS

Green, Robert P Jr
Society of Air Force Clinical Surgeons, Washington DC, Apr 1990

INTRAOCULAR LENSES IN USAF AVIATORS

Green, Robert P Jr
Society of Air Force Clinical Surgeons, Washington DC, Apr 1990

RADIAL KERATOTOMY IN USAF AVIATORS
COLORED LENSES/VISORS IN AVIATION

Green, Robert P Jr
Aerospace Medical Association Meeting, New Orleans LA, May 1990

APPLIED ANATOMY AND PHYSIOLOGY FOR THE OCCUPATIONAL PHYSICIAN
OCULAR HAZARDS OF RADIANT ENERGY
VDTS AND VISION OF WORKERS
VISUAL SCREENING IN INDUSTRY
SLIT LAMP BIOMICROSCOPY FOR THE OCCUPATIONAL PHYSICIAN

Tredici, Thomas J
American Occupational Medical Association Meeting
Houston TX, Apr 29-May 3, 1990

OCULAR HAZARD AT ALTITUDE
SUNGLASSES AND USAF CONTACT LENS PROGRAM

Ivan, Douglas J
Presented at C5A Tactical Airlift Wing (433rd), San Antonio TX, May 1990

1990 Presentations (continued)

PRESUMED OCULAR HISTOPLASMOSIS IN AVIATION PERSONNEL

Murphy EP and TJ Tredici
61st Aerospace Medical Association Meeting, New Orleans LA, 13-17 May 1990

CHOROIDAL NEVI IN USAF AVIATORS

Vandivort DL, TJ Tredici, and RP Green Jr
61st Aerospace Medical Association Meeting, New Orleans LA, 13-17 May 1990

IMPORTANCE OF NIGHT VISION IN MILITARY AVIATION

Tredici, Thomas J
Human Factors in Aviation Intl Conference, Southampton PA, 7-11 May 1990

OCULAR HAZARDS OF RADIANT ENERGY

Tredici, Thomas J
Human Factors in Aviation Intl Conference, Southampton PA, 7-11 May 1990

CONTROVERSIES IN AEROSPACE OPHTHALMOLOGY OCULAR PROTECTION WITH NIGHT VISION GOGGLES

Miller, Robert E II
61st Aerospace Medical Association Meeting, New Orleans LA, 14 May 1990

YELLOW FILTERS AND FLYING

Green, Robert P Jr
61st Aerospace Medical Association Meeting, New Orleans LA, 13-17 May 1990

THE USE OF INTRAOCULAR LENSES IN USAF FLYER

Ivan DJ and RP Green Jr
61st Aerospace Medical Association Meeting, New Orleans LA, 13-17 May 1990

CONJUNCTIVITIS IN THE AVIATOR

Ward, Jane B
61st Aerospace Medical Association Meeting, New Orleans LA, 14 May 1990

ADVANCES IN AIRCREW VISUAL APPLIANCES

Miller, Robert E II
Poster Presentation Briefing for Commander of AF Systems Command,
Brooks AFB TX, 30 May 1990

1990 Presentations (continued)

USAF VISUAL STANDARDS FOR NVG USERS AND THE ROLE OF THE FLIGHT SURGEON

Miller, Robert E II
5th Annual JT Service Night Vision Conference, St Louis MO,
6 June 1990

OCULAR PROBLEMS-SPACE STATION FREEDOM HEALTH MAINTENANCE FACILITY

Tredici, Thomas J
Clinical Consultant Seminar, NASA, Houston TX, 27-29 Aug 1990

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr
38th International Congress of Aviation and Space Medicine, also
Ophthalmology Session Chairman, Paris France, Sep 1990

NON-INVASIVE CORNEAL MODIFICATION WITH THE LASER INTRASTROMAL PHOTOKERATECTOMY
PROBE

Taboada, John
Corneal Refractive Laser Surgery: A Critical Appraisal of Current
Lasers and Methods, Columbia University, New York, 15 Sep 1990

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr
AGARD, London England, Oct 1990

INTRAOCULAR LENSES IN USAF AVIATORS

Green, Robert P Jr
AGARD, London England, Oct 1990

VISUAL PERFORMANCE USING THE FV4 LASER PROTECTION GOGGLE

Pasquale AC III, DJ Ivan, JT Yates, and MW Mayo
LAIRS Conference Letterman Army Institute of Research, Presidio
of San Francisco CA, Oct 1990

VISUAL ELECTRODIAGNOSTIC TECHNIQUES

Yates, John T
University of Texas Health Science Center at San Antonio, Oct 1990

1990 Presentations (continued)

GLAUCOMA AND TONOMETRY

Tredici TJ and L Tredici
Joint Commission on Allied Health Personnel in Ophthalmology Course
American Academy of Ophthalmology Meeting, Atlanta GA, 28 Oct-1 Nov 1990

HOW TO DO A VISUAL FIELD SCREENING WITHOUT AN \$80,000 GADGET

O'Connor P and TJ Tredici
American Academy of Ophthalmology Meeting, Atlanta GA, 28 Oct-1 Nov 1990

LASER INTRASTROMAL PHOTO REFRACTIVE SURGERY USING A NOVEL CONTACT OPTICALLY COUPLED PROBE

Taboada J and RH Poirier
Third International Conference on Laser Surgery of the Cornea,
Atlanta GA, 3 Nov 1990

NIGHT VISION GOGGLES AND THE ROLE OF THE FLIGHT SURGEON

Miller, Robert E II
Night Vision Device Working Group, Headquarters, Air Force Special
Operations Command, Hurlburt Field FL, 7 Nov 1990

LENS DURABILITY AND AERP COMPATIBILITY STUDY

Miller, Robert E II
USAF Aircrew Spectacle Working Group, Brooks AFB TX, 4 Dec 1990

ADULT ONSET MYOPIA IN AIR FORCE PILOTS AND NAVIGATORS

Woessner WM and Miller RE II
Annual Academy of Optometry Meeting, Nashville TN, 8 Dec 1990

USAF SCHOOL OF AEROSPACE MEDICINE
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